

What is claimed is:

1 1. A fire protective container, comprising:

2 a. an outer wall composed of:

3 i. water glass composed of a sodium silicate solution that is about
4 40% solids, 60% water, and having a SiO₂:Na₂O ratio in the range
5 of about 2:1 to 4:1;

6 ii. calcium chloride; and

7 iii. a wicking agent.

1 2. The fire protective container of claim 1, further comprising:

2 a. an intermediate wall; and

3 b. an inner wall composed of a phase change material.

1 3. The fire protective container of claim 2, wherein said outer wall is about 1 to 2
2 inches thick, said intermediate wall is about 0.5 to 2 inches thick, and said inner wall is about
3 0.25 to 1 inch thick.

1 4. The fire protective container of claim 2, wherein said intermediate wall is
2 composed of urethane.

1 5. The fire protective container of claim 2, wherein said intermediate wall is
2 composed of polystyrene foam.

6. The fire protective container of claim 2, wherein said phase change material is composed of dibasic and tribasic sodium phosphate, and water.

7. A fire protective container, comprising:

a. an outer wall composed of:

i. water glass composed of a sodium silicate solution that is about 40% solids, 60% water, and having a $\text{SiO}_2\text{:Na}_2\text{O}$ ratio in the range of about 2:1 to 4:1;

ii. calcium chloride; and

iii. dibasic sodium phosphate.

8. The fire protective container of claim 7, wherein said outer wall is further composed of:

a. calcium metasilicate; and

b. propylene glycol.

9. The fire protective container of claim 8, wherein said outer wall is composed by weight of:

a. 56 parts by weight of said water glass;

b. 0 to 2 parts by weight of said calcium metasilicate;

c. 6 to 12 parts by weight of said dibasic sodium phosphate; and

d. 0 to 3 parts by weight of said propylene glycol.

1 10. The fire protective container of claim 8, further comprising:

2 a. an intermediate wall; and

3 b. an inner wall composed of a phase change material.

1 11. The fire protective container of claim 10, wherein said outer wall is about 1 to 2
2 inches thick, said intermediate wall is about 0.5 to 2 inches thick, and said inner wall is about
3 0.25 to 1 inch thick.

1 12. The fire protective container of claim 11, wherein said intermediate wall is
2 composed of urethane.

1 13. The fire protective container of claim 11, wherein said intermediate wall is
2 composed of polystyrene foam.

1 14. The fire protective container of claim 11, wherein said phase change material is
2 composed of dibasic and tribasic sodium phosphate, and water.

1 15. A fire protective container, comprising:

2 a. an outer wall composed of:

3 i. water glass composed of a sodium silicate solution that is about
4 40% solids, 60% water, and having a SiO₂:Na₂O ratio in the range
5 of about 2:1 to 4:1;

6 ii. calcium chloride; and

7 iii. an additive chosen from the group of calcium oxide or calcium
8 hydroxide.

1 16. The fire protection container of claim 15, wherein said outer wall is further
2 composed of:

3 a. spray dried sodium silicate; and

4 b. propylene glycol.

1 17. The fire protection container of claim 16, wherein said outer wall is composed by
2 weight of:

3 a. 56 parts by weight of said water glass;

4 b. 0 to 12 parts by weight of said spray dried sodium silicate;

5 c. 4 to 10 parts by weight of said additive;

6 d. 2 to 10 parts by weight of said calcium chloride; and

7 e. 0 to 3 parts by weight of said propylene glycol.

1 18. The fire protection container of claim 16, wherein said outer wall is further
2 composed of anhydrous dibasic sodium phosphate.

1 19. The fire protection container of claim 18, wherein said anhydrous dibasic sodium
2 phosphate is added in 4 to 12 parts by weight.

1 20. A fire protection container, comprising:

2 a. an outer wall composed of:

3 i. water glass composed of a sodium silicate solution that is about
4 40% solids, 60% water, and having a SiO₂:Na₂O ratio in the range
5 of about 2:1 to 4:1;

6 ii. calcium chloride; and

7 iii. propylene glycol.

1 21. The fire protection container of claim 20, wherein said outer wall is further
2 composed of calcium oxide.

1 22. A fire protection container, comprising:

2 a. an outer wall composed of:

3 i. water glass composed of a sodium silicate solution that is about
4 40% solids, 60% water, and having a SiO₂:Na₂O ratio in the range
5 of about 2:1 to 4:1;

6 ii. calcium chloride; and

7 iii. water soluble oil; and

8 iv. calcium oxide.

1 23. The fire protection container of claim 22, wherein said outer wall is composed by
2 weight of:

3 a. 20 parts by weight of said water glass;

4 b. 1 part by weight of said water soluble oil;

5 c. 2 to 3 parts by weight of said calcium oxide; and

6 d. 2.4 to 3.2 parts by weight of said calcium chloride.